MESSENGER
MODEM
&
MULTI TERM
TELECOMMUNICATION PROGRAM
USER GUIDE

AN AUTO ANSWER / AUTO DIAL 300 BAUD
TELECOMMUNICATION DEVICE FOR THE
COMMODORE C64 & 128 PC COMPUTERS

IMPORTANT

BEFORE USING YOUR DSI MESSENGER MODEM

The Telephone Company will need the following information before the Messenger Modem is installed:

* The Telephone number to which it is to be connected.
* The FCC ID number which is: D8Z6EVTH-002
* The FCC registration number which is: D8Z6EV-14187-DM-E
* The ringer equivalence: 0.0B

ADDENDUM

1) A (Answer) /O (Original) is controlled by the A/O switch located on the modem.
2) H (Half duplex) /F (Full Duplex) feature can be controlled by H/F switch or by the software itself.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the computer with respect to the receiver.
Move the computer away from the receiver.
Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

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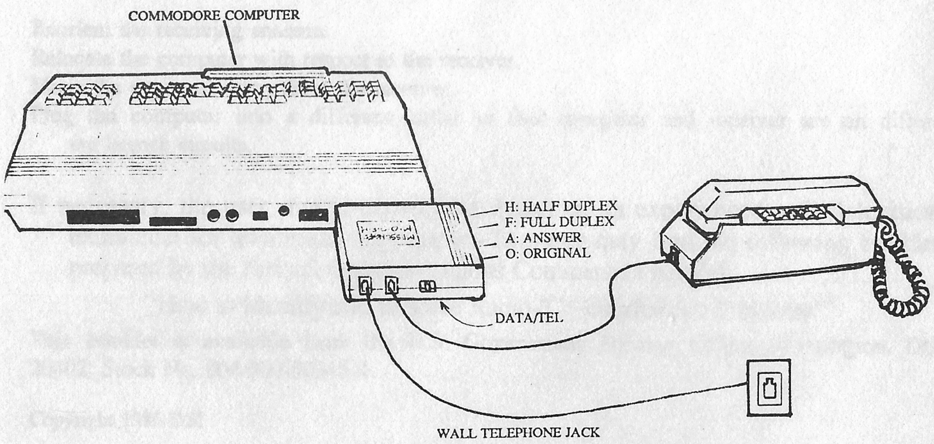
Section 1:

Instructions for Connecting the DSI Messenger Modem

1. Make sure that the power to your computer is turned off.
2. Disconnect the telephone set from the telephone line which extends out from the telephone wall jack.
3. Connect the telephone line which extends out from the telephone wall jack into the port on the back of the modem marked "LINE".
4. Using the extra telephone cord provided in the box, connect the phone to the port on the back of the modem marked "PHONE".
5. Plug the modem into the "USER PORT" of your computer so that the O/A (originate/answer) switch and the F/H (full/half) duplex switches are facing the left hand side of the computer. The red "Online" light should be visible just to the left hand side of your computer.
6. Once you have plugged in the modem, you can turn the power on to your computer, and you are ready to begin using your modem.
7. When calling a bulletin board system, or other computer user, the O/A switch should be set to the O (Originate) position. If you wish your modem to auto answer an incoming call, set the O/A switch to the A (Answer) position.
8. The F/H switch should always be left in the F (Full Duplex) position. Duplex can be controlled from the terminal program.
9. If you wish to dial out with your modem, the Tel/Data switch should be in the Data position. If you then wish to use your phone to make a voice call, set the switch to the Tel position.



Section 2:

Instructions for Use of the Multi Term 4.4 Terminal Program

Use the following procedure to load the Multi Term 4.4 Terminal Program:

1. Type " Load * ",8 <RETURN>

The program will now load and autorun. When the load is complete a menu will appear on your monitor screen. You will see the following options:

T - Ascii Terminal
S - Send File
R - Receive File
K - Modem Nibbler
D - Disk Functions
P - Protocol (Punter)
A - Autodial
M - Multi Transfers
F - Functions Keys
C - Configuration Menu
B - Buffer Menu
Z - Block Size
G - Graphic Term
N - Non Auto Mode
E - Exit

Section 3:

System Setup

The first thing that you need to do, is change the terminal parameters to match your system requirements. To do this, choose the "C" option from the main menu. The configuration menu will appear on your screen as follows:

N - New Baud Rate
M - Modem
R - Redial Delay
D - Disk Device #
P - Printer Sec. Addr.
L - Load Setup File
Z - Dialer Speed
S - Save Setup File
1 - Border Color
2 - Background Color
3 - Text Color

The program comes with a preset configuration file already on the disk. To change the preset values to match your system requirements, use the following procedures:

Baud Rate	Choose the "B" option. You will be prompted to enter a new baud rate from between 300 - 1200 baud. The correct setting for the DSI Messenger Modem is 300 baud.
Modem	Choose the "M" option. You will be prompted to enter your modem type. The correct setting for the DSI Messenger Modem is 1650.
Redial Delay	Choose the "R" option. You will be prompted to enter a redial delay from between 10 - 35 seconds. For most applications 20 seconds will be the correct setting. If you are making a long distance call you may need to choose a redial delay of 25 seconds.
Disk Device #	Choose the "D" option. When this option is selected, the program will automatically check the device # that has been assigned to your disk drive, and will adjust accordingly. If your disk drive is set to device #9 the program will automatically choose device #9 for any disk I/O. If your drive is set to device #8, the program will automatically choose device #8 for any disk I/O.
Sec. Addr.	Choose the "P" option. This option is for choosing the secondary address for printer applications. The default value of 7 is appropriate for most situations. If you wish to set your printer into the transparent mode, choose a secondary address of 4 or 5.
Load Setup File	Choose the "L" option. This option is used for loading the configuration set up file so that changes to the file may be made.
Dialer Speed	Choose the "Z" option. This option will toggle the 1650 autodial speed between fast, or slow. The program is preset to fast dial. The condition of your telephone lines and equipment are the determining factors in regard to which dial speed will be best for your system. If you have problems with the fast dial speed, try the slow speed.
Save Setup File	Choose the "S" option. This option is used for saving the configuration set up file after changes have been made.
Border Color	Choose the "1" option. Each time the number "1" key is pressed, the border color will change. Press the number "1" key until the border changes to the desired color.
Background Color	Choose the "2" option. Each time the number "2" key is pressed the background color will change. Press the number "2" key until the background changes to the desired color.
Text Color	Choose the "3" option. Each time the number "3" key is pressed the text color will change. Press the number "3" key until the text color changes to the desired color.

Section 4:

Other Main Menu Options

Ascii Terminal	Choose the "T" option. The Ascii terminal will be used with most bulletin board systems and commercial information services.
Send File	Choose the "S" option. Use this option to send a sequential or program file to a bulletin board system, or to other computer users. The terminal program is preset to the "Punter" method of file transfer. The bulletin board system, or other computer users must also be capable of the "Punter" method of file transfer in order to accomplish a successful file transfer. You may also choose the "Xmodem" method of file transfer (see option P).
Receive File	Choose the "R" option. Use this option to receive (download) a sequential or program file from a bulletin board system, or other computer user. As with the "Send File Option" the terminal program defaults to the "Punter" method of file transfer, with "Xmodem" available if needed.
Disk Functions	Choose the "D" option. When you choose this option, you will see the following sub-menu on your monitor screen. @ - Disk Commands D - Disk Directory R - Read Seq File P - Print Seq File
Disk Commands	Choose the "@" option. Use this option to send commands directly to your disk drive. Use the following example for formatting a disk, as a guide for entering the proper syntax for disk commands: >n:test,01 For more information regarding disk commands consult your disk drive owners manual.
Directory	Choose the "D" option. Use this option to view the directory of the disk presently in your disk drive. To pause the directory listing, press the Space Bar. To abort the directory listing, press the F1 key.
Read Seq File	Choose the "R" option. Use this option to view, on your monitor screen, the contents of a sequential file. When prompted for a file name, be sure to enter it exactly as it appears on your disk directory, or you will get a "File not Found" error.
Print Seq File	Choose the "P" option. Use this option to send the contents of a sequential file to your printer. When prompted for a file name, be sure to enter it exactly as it appears on your disk directory, or you will get a "File not Found" error.

Protocol	Choose the "P" option. Use this option to toggle the method of file transfer from "Punter" to "Xmodem," or vice versa.
Autodial	Choose the "A" option. Use this option to make a personalized autodial phone directory. You will see the Autodial menu on your monitor screen. You may enter up to a maximum of 25 telephone numbers. Use the "e" option to add a phone number, or to edit an existing number. NOTE: Be sure to use the "Save Setup File" option whenever you add, or edit a number. If you fail to do so, the changes will not be saved to disk, and the information will have to be re-entered. You may instruct the program to autodial a sequence of 2 to 5 phone numbers by using the "m" option. The autodialer will dial each series of numbers in sequence until it finds a number that is not busy. To dial a number that is not listed in the number list, choose the "o" option.
Multi Transfers	Choose the "M" option. Use this option to either send, or receive more than 1 file at a time. The bulletin board system, or other computer user that you are currently in contact with, must also have the capability of sending and receiving multiple files in order to use the Multi Transfer option.
Function Keys	Choose the "F" option. You may program your function keys with short messages such as passwords, or any other message that is used often while in the terminal mode. Press F1 key through F8 key to program function keys 1 through 8. Press C= 1 through C= 8 to program function keys 9 through 16. NOTE: (The C= symbol represents the Commodore key, which is located on the bottom left hand corner of the C-64, or C-128 keyboard.)
Buffer Menu	Choose the "B" option. Multi Term utilizes what is commonly called a "Capture Buffer". When the capture buffer is activated, all incoming data is stored in RAM memory for future retrieval. When you choose this option, you will see the buffer menu on your monitor screen. The available options are as follows: S - Save Buffer R - Read Buffer P - Print Buffer C - Clear Buffer
Save Buffer	Choose the "S" option. Use this option to save the contents of the capture buffer to disk.
Read Buffer	Choose the "R" option. Use this option to view the contents of the capture buffer on your monitor screen.
Print Buffer	Choose the "P" option. Use this option to send the contents of the capture buffer to your printer for a hardcopy printout.
Clear Buffer	Choose the "C" option. Use this option to erase the contents of the capture buffer. Upon using this command all data held in the buffer will be erased.

Block Size	Choose the "Z" option. Use this option to change the block size of the file being sent when doing "Punter" file transfers. The preset value of 255 is the best choice.
Graphic Term	Choose the "G" option. Use this option for bulletin board systems which offer the use of graphics (pictures). Graphics at present are computer specific. In other words, a picture must usually be created for each different type of computer because there is, as of yet, no universal graphics character set. Some information services and bulletin board systems use pictures to identify themselves. Systems which use graphics will ask if your specific computer system can accept graphics. Once it is determined that you own a compatible computer, the graphic data will be readied for transmission.
Non Auto Mode	Choose the "N" option. When the Non Auto Mode is selected, the terminal program in effect, becomes a mini bulletin board system. A practical usage of the Non Auto Mode would be to make your computer system available to an outside caller. The caller would have access to all programs stored on your disk, and would be able to do automatic file transfers. The following menu is provided when the Non Auto Mode is selected: $ - Disk Directory C - Page Sysop N - Drive Device # U - Punter Upload D - Punter Download M - Multi Transfers P - Change Protocols

These options have all been explained elsewhere in this documentation with the exception of the page sysop command. The page sysop command is used by the calling party, to page the system operator, which in this case is you. When the caller chooses the "C" option, the terminal program will generate an audible tone which is designed to get your attention. Be sure that the volume control on your monitor is turned up loud enough for the tone to be heard if the caller chooses this option. If you wish to communicate with a caller while he is on line, press the F1 key. This will force the system into the chat mode, which allows the system operator and caller to send typed messages back and forth in real time. To abort the Non Auto Mode press the F7 key.

Section 5:

Online Functions

Commands that are available while online with a bulletin board system, or other computer users, are known as online functions, or terminal commands. To get to the Terminal Command Menu from the terminal mode, press "C= H". After entering this command you will see the following menu:

C= E	To Toggle Echo
C= H	For This Menu
C= R	For File Receive
C= S	For File Send
C= +	For Off Hook
C= -	To Hang Up
C= B	To Toggle Buffer
C= Z	For Buffer Free Space
C= G	For Graphic Terminal
C= M	For Multi Transfer Menu
C= F	For Display of Function Keys
C= N	For Non Auto Mode
C= D	For Disk Directory
C= A	For Autodial Menu
C= X	For Main Menu
F1-F8	For Function Keys 1-8
C= 1-8	For Function Keys 9-16

To Toggle Echo	Choose the "C= E" option. Use this option to toggle on or off, the terminal parameter known as duplex. The Multi-term program is preset to the full duplex setting. Duplex may also be controlled by a switch on the Messenger Modem that is labeled F/H. This switch should be set to the F(full duplex) position. Virtually all modem communications are done in full duplex therefore full duplex will almost always be the correct choice.
For This Menu	Choose the "C= H" option. Use this option to display the Terminal Command Menu.
File Receive	Choose the "C= R" option. Use this option to go to the receive file function directly from terminal mode.
For File Send	Choose the "C= S" option. Use this option to go to the send file function directly from the terminal mode.
For Off Hook	Choose the "C= +" option. Use this option to pick up carrier after you have manually dialed the phone from the terminal mode.
To Hang Up	Choose the "C= -" option. Use this option to go off line if necessary.
Toggle Buffer	Choose the "C= B" option. Use this option to toggle on or off the capture buffer.
Buffer Space	Choose the "C= Z" option. Use this option to check how much space is left in the capture buffer.
Graphic Term	Choose the "C= G" option. Use this option to go to the Graphic Terminal directly from the Ascii terminal mode.
Multi Transfer	Choose the "C= M" option. Use this option to go to the Multi Transfer Menu directly from the terminal mode.
Function Keys	Choose the "C= F" option. Use this option to view the information programmed into your function keys.
Non Auto Mode	Choose the "C= N" option. Use this option to go to the Non Auto Mode directly from the terminal mode.
Disk Directory	Choose the "C= D" option. Use this option to view your disk directory directly from the terminal mode.
Autodial Dir	Choose the "C= A" option. Use this option to go to the Autodial Menu directly from the terminal mode.
For Main Menu	Choose the "C= X" option. Use this option to view the main menu directly from the terminal mode.
Func.Keys F1-F8	Choose F1 through F8. Use this option to enable the user defined function keys directly from the terminal mode.
Func. Keys 9-16	Choose C=1 through C=8. Use this option to enable the user defined function keys directly from the terminal mode.

Section 6:

Using the Multi Term 4.4 Terminal Program With Compuserve

To initiate communications with Compuserve, use the following procedure:

1. Dial your local Compuserve Network phone number. (See page 22 of the Compuserve IntroPak instruction manual.)
2. When your computer makes connection with Compuserve, the red LED on the Messenger Modem will light, and the Multi-Term terminal program will automatically go to terminal mode.
3. Type <Control C>. You will now be asked to enter your Compuserve User ID number and password. (You will find your user ID number, and temporary password in the centerfold section of the Compuserve IntroPak instruction manual.)
4. If you accidently press the <RETURN> key instead of <CONTROL C>, Compuserve will respond with a "HOST NAME" prompt. If this occurs, type "CIS" and then press <RETURN>. After typing "CIS," you will be asked to enter your Compuserve user ID number and password.
5. You should use the ASCII terminal mode with Compuserve. The Graphics Term mode included with this terminal program is not compatible with the Compuserve Graphics mode.
6. For uploading and downloading program or sequential files, use the "Xmodem" protocol. The "Xmodem" protocol may be selected from either the Multi Term main menu, or from the terminal commands menu.

SOFTWARE UPDATE

The Multi Term 4.4 terminal program has been replaced with the enhanced version, Multi Term 5.0. Multi Term 5.0 has several useful features not present in the 4.4 version. All of the changes have been incorporated into the various menus as listed below.

Configuration Menu

Additions to the configuration menu:

Modem Parameters — Choosing this option gives you the the opportunity to custom tailor your modem parameters to match non standard BBS systems. The default values supplied with the program are correct for most all BBS systems, but in the event that you do need to change your modem parameters the following values may be changed.

Duplex
Parity
Word Length
Stop Bits
Handshake

Set Time — Choosing this option allows you to set the online clock. This is useful for keeping track of time spent on pay systems such as Compuserve.

Deletions from the configuration menu:

Printer Secondary Address: Multi Term 5.0 does not support the Printer Secondary Address feature. If using a non-Commodore printer, use your printer interface in the 1525 emulation mode.

Disk Menu

Additions to the Disk Menu:

Sequential File to Modem: Choosing this option allows you to send the contents of a sequential file directly to your modem for transmission to a BBS or other computer user.

Online Functions Menu

Additions to the Online Functions Menu:

C= T — Choosing this option allows you to toggle the system clock On or Off

C= 0 — Choosing this option allows you to toggle Xon/Xof protocol. Most BBS systems use the Xon/Xoff protocol to transfer ASCII text files. This command will be used in conjuction with the Multi term buffer.

IMPORTANT NOTE

The C= symbol designates the Commodore Key which is located in the lower left hand corner of your C-64, C-128 keyboard. To use commands that utilize the Commodore key simply press the Commodore key, then press the appropriate letter key.

Several ficticious entries have been put into the auto dial menu as examples. You may remove these from the menu and replace them with your own entries by using the edit command.